

Additional Practice**Lessons 4.4 and 4.5**

Two rectangles are scaled copies of each other. The ratio of the length of one rectangle to the length of the other is $\frac{4}{5}$. The width of the smaller rectangle is given. Find the width of the larger rectangle.

1. 20 2. 12 3. 18 4. 10 5. 6 6. 11

The length of a side of a scaled square is given. The scale factor is 1.5. Find the length of a side of the original square.

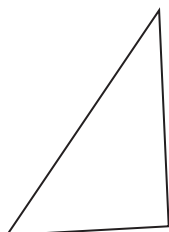
7. 3 8. 15 9. 1 10. 21 11. 78 12. 2

Use the side lengths of the two triangles to decide whether the triangles are scaled copies. Explain.

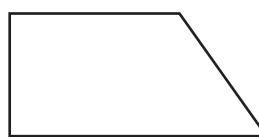
13. Triangle A: 5, 6, 10 14. Triangle C: 8, 12, 7 15. Triangle E: $10, 3\frac{1}{2}, 7\frac{1}{2}$
 Triangle B: 10, 11, 15 Triangle D: 21, 24, 36 Triangle F: 12, 4, 9

Draw a figure inside the original figure that is a scaled copy. (You choose the scale factor.) Explain how to do it.

16.



17.



You scale a polygon by each factor. Find (a) the ratio of the lengths of any two corresponding sides of the original polygon to the scaled one, and (b) the ratio of the measures of any two corresponding angles of the original polygon to the scaled one.

18. $\frac{8}{5}$ 19. 7 20. 5.4 21. 0.9 22. $\frac{3}{5}$ 23. 1

Use the angle measures to decide whether the two triangles are scaled copies. Explain.

24. Triangle G: $45^\circ, 45^\circ$ 25. Triangle J: $133^\circ, 11^\circ$ 26. Triangle M: $55^\circ, 82^\circ$
 Triangle H: $45^\circ, 90^\circ$ Triangle K: $35^\circ, 11^\circ$ Triangle N: $43^\circ, 55^\circ$
 27. Triangle P: $79^\circ, 81^\circ$ 28. Triangle R: $102^\circ, 53^\circ$ 29. Triangle V: $139^\circ, 5^\circ$
 Triangle Q: $81^\circ, 20^\circ$ Triangle S: $25^\circ, 53^\circ$ Triangle W: $26^\circ, 139^\circ$